



Nick Lachen  
Physics  
Ames High School  
Barilla

## Part I: Overview of Business

- Barilla has been making pasta for the world for over 100 years. They have almost 3 dozen plants on the planet, each making tons of pasta a day!

## Part II: Job Specifics

- I was in the Quality Assurance Department assisting with a variety of projects.
- To some extent I was an intern as well as an extern learning how to work in the QA lab.

## Part III: Introduce the Problem

- How do physics ideas apply to forklifts?
- Forklifts are used extensively within the company to move pallets of pasta and raw materials.

## Part IV: Background

- Students will investigate how motion, forces, energy, and momentum apply to forklifts.

## Part V: Business Solution

- Make graphs, force diagrams, pie charts, and words to explain how forks lifts work.

## Part VI: Student Solutions

- The same! Students will return to ‘the forklift’ periodically to explain everything they can about the physics of forklifts.